

Recombinant Human TEX264 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. TEX264-125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TEX264 MS Standard C13 and N15-labeled recombinant protein (NP_057010) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Major reticulophagy (also called ER-phagy) receptor that acts independently of other candidate reticulophagy receptors to remodel subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover. The ATG8-containing isolation membrane (IM) cradles a tubular segment of TEX264-positive ER near a three-way junction, allowing the formation of a synapse of 2 juxtaposed membranes with trans interaction between the TEX264 and ATG8 proteins. Expansion of the IM would extend the capture of ER, possibly through a 'zipper-like' process involving continued trans TEX264-ATG8 interactions, until poorly understood mechanisms lead to the fission of relevant membranes and, ultimately, autophagosomal membrane closure. Also involved in the repair of covalent DNA-protein cross-links (DPCs) during DNA synthesis: acts by bridging VCP/p97 to covalent DNA-protein cross-links (DPCs) and initiating resolution of DPCs by SPRTN.
Molecular Mass	34.2 kDa

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AA Sequence	MSDLLLLGLIGGLTLLLLLTLLAFAGYSGLLAGVEVSAGSPPIRNVTVAYKFHMGLYG ETGRLFTESCSISPKLRSIAVYYDNPHMVPPDKCRCVGSILSEGEESPSPELIDLYQ KFGFKVFSFPAPSHVVTATFPYTTILSIWLATRRVHPALDTYIKERKLCAYPRLEIYQE DQIHFMCLARQGDFYVPEMKETEWKWRGLVEAIDTQVDGTGADTMSDTSSVSLE VSPGSRETSAA TLSPGASSRGWDDGDTRSEHSYSESGASGSSFEELDLEGEGLG ESRLDPGTEPLGTTKWLWEPTAPEKGKETRTRPLEQKLISEEDLAANDILDYKDDDD KV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TEX264 testis expressed 264, ER-phagy receptor [Homo sapiens (human)]
Official Symbol	TEX264
Synonyms	TEX264; testis expressed 264, ER-phagy receptor; ZSIG11; testis-expressed protein 264; testis expressed gene 264; testis-expressed sequence 264 protein
Gene ID	51368
mRNA Refseq	NM_015926

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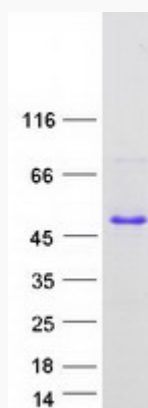
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Protein Refseq NP_057010

UniProt ID Q9Y6I9

SDS-PAGE



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